

**B.Sc. IN MEDICAL LABORATORY
TECHNOLOGY (BMLT) .**

Term-End Examination

June, 2017

**BAHI-012 : ORGANIZATION LABORATORY
MANAGEMENT AND APPLIED BIOCHEMISTRY**

Time : 3 hours

Maximum Marks : 70

Note : (i) Attempt all questions from part A, B, C.

(ii) Attempt any three questions from Part D.

PART - A

1. (a) Fill in the blanks : 1x5=5
- (i) Muscle enzyme - Serum Creatine _____, is essential for phosphorylation of creatine with ATP.
 - (ii) Raised Enzyme _____ in diagnostic of acute pancreatitis.
 - (iii) According to _____ Theory, strength of acid and base depends upon degree of dissociation.
 - (iv) _____ is a tumor marker for diagnosis of hepatic and embryonal tumors.
 - (v) Serum _____ determines iron status of the body.

- (b) Write True (T) or False (F) in the following : 1x5=5
- (i) Carboxy peptidase and amino peptidase removes aminoacids from carboxyl ends and peptide chains respectively.
 - (ii) Raised Isoenzyme CK-MB is helpful for the diagnosis of brain and skeletal lesions.
 - (iii) Estimation of Trypsin, Chymotrypsin, Collagenase elastase is helpful diagnostic aid for diagnosis of chronic gall bladder lesions.
 - (iv) Increased Gamma - GT (γ - GT) enzymes activity is greater in obstructive hepatobilliary disorders and in malignant involvement than in hepatocellular diseases.
 - (v) Basic use of Flow Cell Cytometry (FCM) in clinical diagnosis of AIDS, oncology, cell biology and many other disorders is promising and helpful.

PART - B

2. Write short notes on any two of the following : 5x2=10
- (a) Automation in laboratory management.
 - (b) Preventive measures of Laboratory hazards.
 - (c) Quality control measures in post analytical management.

PART - C

3. Write briefly on **any four** of the following : **5x4=20**
- (a) Formation of urea.
 - (b) Clinical importance of purines.
 - (c) Electrophoresis of plasma proteins.
 - (d) Clinical importance of immunoglobulins.
 - (e) Laboratory waste disposals.

PART - D

(Answer **any three** questions)

4. (a) How blood gas analysis is done ? **5+5=10**
(b) Discuss the Clinical importance of acid-base balances.
5. (a) Enumerate various tumor markers of clinical importance. **5+5=10**
(b) Write procedures of estimation of Beta-HCG, qualitative estimation in Urine.
6. (a) Enumerate basic requirement of laboratory establishment for 100 bed hospital at district level. **5+5=10**
(b) Briefly explain quality management procedures necessary for laboratory.
7. (a) Describe normal bilirubin metabolism. **5+5=10**
(b) Enumerate major differences between conjugated and unconjugated bilirubin.